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COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

United States Department of Agriculture and State
Agricultural Colleges Cooperating

Safe Farming in the Southern States in 1919

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SAFE FARMING IN THE SOUTHERN STATES IN 1919

THE WAR IN EUROPE has come to a sudden end and the country is confronted with the problems of peace rather than the problems of war. Nineteen hundred and nineteen will be a year of readjustment of activities not only but also of motives and purposes. In times of great danger, such as the crisis just passed, patriotic men will subordinate their profits to the supreme needs of the nation. With the return of peace, the usual economic motives will be controlling and should be controlling, since the interests of all the people are best served when normal returns for the labor of every man are secured. Hence, in considering the program for the Southern States in 1919, we must consider a safe and enduring system of agriculture which will maintain soil fertility and be as permanently and as universally profitable as possible for those engaged in it.

While this principle will govern, we must remember that no radical changes took place in American agriculture on account of the war. Each farmer was urged to do more of the things he knew best how to do. The great accomplishments of the past two years were the result of every farmer working a little harder at his regular job. With abundant patriotism they did what was necessary and helped greatly in winning the war. The food produced in the South released food from the Western States for the Army and for the Allies.

A BALANCED AGRICULTURE.

A well balanced system of agriculture has been the ideal held up to the South for many years past. The safety and security of the Southern people depend greatly upon the production of the food necessary to feed the people; upon a reasonable livestock industry to balance the farming by economizing labor and consuming otherwise waste products; and upon a sufficiently diversified cropping system to guarantee an increasing in place of a decreasing soil fertility. Such a system is nothing more nor less than the system of safe farming which has been taking a strong hold in the Southern States during the last few years. All agricultural workers in the South have agreed that no one-crop system ever made a people prosperous. chances are too great when the eggs are all put in one basket. makes no difference whether the disaster results from war, the boll weevil, the pink bollworm or other insect pests, plant disease, failing transportation, excessive rain, or drought, that system is safest which adheres religiously to a plan of farming sufficiently diverse to produce always food for people and feed for livestock, to utilize

the labor upon the farm the maximum number of days in a year, and to produce for marketing more than one product of the farm for its cash income.

In considering a program for the year 1919, each State should give earnest consideration to a few fundamental principles:

- (1) The planting of a disproportionately large acreage in any one crop introduces speculative features which unbalance systems of farming. Such planting increases the risk of loss through bad weather, destructive insects and diseases, and exposes the farmer unduly to the hazard of possible adverse conditions. If indulged in throughout any region with such a crop as cotton it makes the farmers of that section too dependent upon world markets, often with disastrous results. It also makes them unnecessarily and uneconomically dependent upon other sections for foods and feed-stuffs.
- (2) Each farm, each community, and each section should produce, as far as possible, its own food and feed for the sake of economical production, and to save transportation costs and intervening profits where the purchase must be made from distant sections. In other words, the food and feed of the South should be produced on the farms of the South.
- (3) In stimulating increased food production the emphasis should be on non-perishable staple crops which can be increased beyond local needs in communities where they can be produced profitably and which can be marketed to advantage.
- (4) The production of perishable crops should be increased above normal only as facilities for transportation and marketing are assured.

The situation in the South in 1919 will be a difficult one, but the experiences of the past season ought to lead us to approach the task with some confidence. You will remember that throughout the planting season of 1918 the price of cotton stood at 30 cents a pound and above. In the appendix to this circular will be found a table showing the comparative acreage in most of the standard farm crops of the South compared with the 1917 acreage. The increased acreage in cotton of a little over 6 per cent occurred in Alabama, Louisiana, Mississippi and Oklahoma, mainly. In three of these States low previous acreage, due to the boll weevil, warranted some increase, while in Oklahoma the disastrous winter and the protracted drought killed so many acres of winter wheat and other small grain that an increase in acreage of cotton seemed inevitable. This same table shows, however, that the farmers in practically every State in the South, with a shortage of labor and with unusual difficulties of operation, planted increased acreages in the main food crops. It should be noted also that the livestock of the South has been considerably increased, particularly the production of hogs, cattle, and sheep, and increased livestock production demands an increased production of food crops and forage.

Other tables in the appendix give acreage and production of the standard farm crops of the South since 1909, for the purpose of showing the steady increase in food and feed crops and the fluctuating acreage in cotton. This is a record every Southern farmer should have. It shows what Southern farmers did to help win the war.

FOOD PLUS COTTON EQUALS PROSPERITY.

If the Southern farmer is in a better financial condition today than he has been for some years past, it has resulted from a better balanced husbandry and the production of more food and feed crops and livestock, as well as from the high prices for his cotton, tobacco, rice, and other cash crops. If food and feed are not produced upon the farms and the acreage is devoted too largely to cotton both food and feed must be purchased; a comparison of the purchasing power of cotton during the past year and its purchasing power during the years before the war will show that cotton did not purchase materially more of food and feed at retail prices in the South at 30 cents a pound in 1918 than at 12 cents a pound prior to August 1, 1914.

The rule followed in the South in the last few years is still good. Farmers and bankers are urged again to compare the purchasing power of their cotton with the retail values of food and feed. Such a comparison will at once convince the ordinary man of the necessity of producing food and feed in the South to supply all our people and the increasing livestock.

Without going elaborately into the figures it is only necessary to say that what was a safe, economic, and advisable system of farming before the war was safe, economic, and advisable during the war, and will be safe, advisable, and, in the long run, most profitable after the war, and that is the system already described.

Since the fall of 1914 cotton farmers of the South have profited from the steady rise in the general level of all prices, including cotton. The supplies for the year, during this period of rising prices, were purchased at one level and paid for in the fall or winter out of cotton sold at a higher level. If the war should be followed by a general decline of prices, the reverse of the situation indicated above will confront the cotton farmer. In other words, he will purchase at high prices the supplies for making the crop, and also foods and feedstuffs, if he does not produce a sufficient quantity of them, and possibly pay for them in the fall or winter from his cotton sold

at lower prices. The chances for profit during a period of increasing prices are greater than during a period of decreasing prices. These are facts which the cotton farmer should remember during the period following the war.

That the value of farm products in the eleven cotton States has undergone a distinct change in the past few years is shown by the following table:

Estimated value of Crops in Eleven Cotton Producing States, Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, 1910 to 1918.

COTTON COMPARED WITH 12 OTHER CROPS.

Year.	Value of 13 crops, cotton included.	Value of cotton crop, lint only (U. S.).	Value of 12 crops, cotton excluded.
1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917 ² . 1918 ² .	\$1,444.302,000 $1,338,496,000$ $1,483,704,000$ $1,615,996,000$ $1,284,600,000$ $1,458,221,000$ $2,153,406,000$ $3,155,691,000$ $3,262,617,000$	$\begin{array}{c} \$ & 829,407,000 \\ 687,888,000 \\ 817,055,000 \\ 862,708,000 \\ 549,036,000 \\ 631,460,000 \\ 1,122,295,000 \\ 1,566,198,000 \\ 1,616,207,000 \\ \end{array}$	$\begin{array}{c} \$ & 623,895,000 \\ 650,608,000 \\ 666,649,000 \\ 753,288,000 \\ 735,564,000 \\ 826,761,000 \\ 1,031,111,000 \\ 1,589,493,000 \\ 1,646,410,000 \\ \end{array}$

COTTON COMPARED WITH ALL CROPS.

Year.	Value of all crops, cotton included.	Value of cotton crop, lint and seed (U.S.).	Value of all crops, cotton excluded.
* 1914. 1915. 1916. 1917 ² . 1918 ² .		677,986,000 799,360,000 1,381,365,000 1,894,876,000 1,956,207,000	$1,020,597,000 \\ 1,123,529,000 \\ 1,454,348,000 \\ 2,287,736,000 \\ 2,389,974,000$

¹Corn, wheat, oats, barley, rye, buckwheat, flaxseed, rice, potatoes, sweet potatoes, tame hay, tobacco, and lint cotton.

tame hay, tobacco, and lint cotton.

² December, 1918, Bureau of Crop Estimates.

All figures from Crop Report and U. S. Census.

In some sections of the cotton area a plan of farming known as "fifty-fifty" farming has been advocated. By this is meant one-half of the acreage per farm to cotton and one-half to food and feed crops. In many sections of the South such a rule is not far from correct, but it is felt that no definite and prescribed acreage plan can be given for all sections. Each farm in its management and operation is so dependent upon other factors that it would be unsafe to lay down such a rule except as a kind of general guide. In some of the smaller farm areas it is probable that the percentage of cotton may well be reduced below 50 per cent, while 50 per cent in food and feed crops is probably too high for large plantation purposes. Each farm and each community will have to work out this problem for itself.

RICE FARMING.

In rice producing areas it is wise again to give consideration to diversification. The introduction of livestock and other food and

feed crops as a part of the farm plan of every rice farmer is important for the future security of the industry. Rice farmers are pretty well organized and have their marketing facilities well in hand. Increased acreage might be warranted by bringing in new land as farms if the dangers of single-cropping, both as to soil fertility and market conditions, can be avoided by more livestock and forage crops.

FOOD PRODUCTION STILL IMPORTANT.

Not only is the food problem still a paramount problem and the hunger of the world still unappeased, but especially are we going into an era of uncertainties. No one knows just what the future holds for us. No man is wise enough to predict with accuracy whether prices will be maintained or not. He is a very unwise man, therefore, who makes up his mind to speculate at such a time. The safest course is to secure first the living of the people and then a constant and well equalized production which will be the surest guaranty of prosperity.

DOES SAFE FARMING APPLY TO NON-COTTON TERRITORY?

There are States and areas of the South where single-crop farming is not a serious menace. In Maryland, Virginia, West Virginia, Kentucky, middle and eastern Tennessee and certain other regions, the agriculture is fairly well diversified, yet the principles of safe farming apply to these sections as well as to others. The maintenance of soil fertility, the home living from the soil, and the selection of a number of products from the farm to exchange for cash in the markets of the world are sound principles in any section. In the regions mentioned above the greatest possible attention should be given to the size, extent and diversity of farm operations, to farm management plans which will utilize the labor, tools and equipment to the fullest possible extent, and to the business and marketing side of farming. A plan best calculated to produce a permanent and profitable agriculture should be developed.

A SAFE FARMING PROGRAM.

For the sake of considering the items carefully, let us repeat a safe farming program. It consists of:

(1) A good home garden for every farm family and every town and village family in the South to supply the home needs for the maximum number of days in a year with a sufficient surplus to be canned, stored, or dried for future use. In this home garden should be included an ample supply of Irish and sweet potatoes for home use. On every farm where possible there should be a small patch of either cane or sweet sorghum to produce the home supply of sirup. The production of honey for home use should be stimulated.

(2) The production of corn on Southern farms should be fully maintained and the acreage increased on all farms and in all sections which do not now produce a sufficient quantity for home use, with the exceptions noted below. Corn is the main dependence of the South for food and feed. There has been a gradual increase in acreage for some years past (see table attached). An increase necessary to insure a sufficient supply for feed for the increased livestock as well as for food for the people should be given careful consideration.

Grain sorghums.—In connection with corn production we should consider the grain sorghums. It ought to be pretty clear to farmers in western Texas and Oklahoma that corn is an unsafe crop on most of the lands in that territory. In all of the drier sections of Oklahoma and Texas there should be an increased planting of grain sorghums. The planting of corn in west Texas and Oklahoma should be abandoned except on land which produced a fair return of sound corn in 1918. If there is any increase in corn acreage in either Texas or Oklahoma it should be in the extreme eastern section of both States. The increased demand for grain for food and feed should be met by an increased acreage of grain sorghums.

(3) Small grain acreage, especially wheat and rye, has been increased according to a program undertaken for fall planting. It is unnecessary to comment on this program further except to say that where spring oats have proven successful in past years reasonable planting to this crop may well be considered as a part of the spring

program. Rice production is mentioned above.

(4) The production of hay and forage crops necessary to supply amply the livestock on the farms of the South for one year, with an excess for the sake of safety and for city and town consumption, should be a part of the program throughout the entire territory. In planting for hay and forage production special attention must be given to the summer legumes, velvet beans, cowpeas, soy beans, and

peanuts.

Wherever they grow successfully an increased acreage in velvet beans in North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Arkansas, and Texas, to the largest possible extent, is advisable not only for production of hay and forage, but for the improvement of the soil. If not a single bean is harvested except for seed, the farmer will be amply repaid in the increased productiveness of the land for another year. This crop also requires practically no work, as it is raised in the corn.

Soy beans ought to be increased in acreage, especially for hog production. In many sections this crop has proven more advantage-

ous for hog production than either peanuts or cowpeas.

Cowpeas should be planted in the corn or after oats, both for seed and for hay, especially in the territory where velvet beans can not

be grown.

Peanut acreage has greatly increased in the South in the past few years. To the extent of the farmer's need for feed for his increased hog production, acreage in peanuts may well be increased. In territory where they have proven successful increases should be advocated mainly by extending production to farms beginning hog production, but on which peanuts have not been grown. Acreage for

commercial purposes should only be increased as fair contract market prices would seem to warrant. This is a matter which should be approached with caution.

Acreage in clover and alfalfa is generally a matter for the fall seeding program, but no plan is complete for the year without these valuable crops for soil improvement, for grazing, and for hay. In all sections where these crops succeed they should form a part of the crop rotation.

(5) The South should increase its production of meat, eggs, and milk. The production of hogs, cattle, and poultry is now on the increase. In a statement recently issued by the Secretary of Agricul-

ture he says:

"Two things seem to be clear, one is that for a considerable period the world will have need particularly of a larger supply than normal of livestock and especially of fats. We should not fail, therefore, to adopt every feasible means of economically increasing our livestock products. As a part of our program we should give due thought to the securing of an adequate supply of feedstuffs and to the eradication and control of all forms of animal disease."

With the abundance of roughage available at all times, with the possibility of from two to three crops on the same land each year, with the diversity of crops, especially legumes, which can be produced for feeding purposes, and with its large production of concentrates such as cottonseed, velvet bean, peanut, and soy bean meal, the South should place livestock as a permanent part of its agricultural program under any and all circumstances. Most of the Southern States have undertaken programs of increased production of hogs, cattle, and poultry. This requires careful planning of the cropping system in order that there may be an increase in feed crops and forage necessary to supply the increased livestock. Hogs, cattle. and poultry should be a part of every farm plan. More careful feeding, breeding, and selection should be the rule, and the development of cooperative marketing in carload lots should be carefully fostered. Especially in cotton, tobacco, sugar cane, and rice regions livestock should be a source of cash income to the farm in addition to the main crop.

As milk constitutes one of the most important items of human food the South not only needs to develop the dairy industry, but should increase the number of milch cows so that there may be a minimum of two for each farm family. With the development of creameries and cheese factories the extra milk will bring a cash

revenue much needed by the farmer.

(6) The South has four great cash crops which are limited to definite areas, namely—cotton, tobacco, rice, and sugar cane. In the development of a sound, enduring, and profitable agriculture the same general principles should be followed with regard to each of these crops. These principles are as follows:

(a) A cropping system which will maintain and build up soil

fertility.

(b) The farm as nearly as possible self-supporting by producing the food for the family and the feed for the livestock.

- (c) When the necessities of life have been amply provided for, produce these splendid crops as a source of cash income for the farm.
- (d) For safety's sake we should not pin our faith entirely to one product. The cash income of the farm should be derived from a number of well-selected products.

COTTON.

If the cotton farmer of the South will only remember his experiences since 1914 he will be assisted in determining upon a plan for the future. He should remember that often in the past twenty years his greatest profit has come from actual misfortune, namely, a bad season and a short crop brought high prices, while a good season and a big crop brought low prices. He has seen disaster and great financial hardship from the boll weevil, from drought, from cotton wilt in some sections, from the red spider in others, and from the outbreak of the war in Europe. These experiences should be enough to convince any thinking man that speculation by the farmer in cotton acreage is an unprofitable business. While the gross return per acre in cotton raising is the largest of any single non-perishable farm crop, it is important to note that the cotton farmers do not stand near the top of the list in average wealth, and any comparisons between the all-cotton territory and highly diversified agricultural sections are all in favor of the diversified sections as against the cotton area.

In the face of the uncertainties of the present time, when world trade has been seriously disturbed and when the whole of civilization seems to be in a period of flux, is it not a wise plan to develop an agriculture which is safe for our farmers and which will maintain the supremacy in cotton production by safeguarding it by a better balanced system of agriculture?

The acreage in cotton for 1918 was exceeded only in 1911, 1913, and 1914. In 1911, with but 150,000 acres more than in 1918, the yield was 15,693,000 bales. Had it not been for the unfortunate season we would have had a very large crop of cotton in 1918. Any increase in the acreage planted in 1919 over 1918 with a good season would produce an enormous crop of cotton with all of the attendant risks which abnormally large production has always brought to the cotton planters. A good average acreage well tended, with good seasonal conditions, will produce a large crop. More attention should be given to the securing of better seed, better preparation of the soil, community production of uniform varieties and cooperative grading and marketing of the product, rather than the haphazard speculative planting of a large crop, poorly tended and of inferior quality.

RICE.

In the rice areas the principles laid down for cotton production should have a very strong bearing. The main consideration should be the orderly and sound development of the industry as pointed out above.

TOBACCO.

The safeguarding of the interest of the farmer by sufficient diversity to maintain soil fertility and produce the food and feed in ample quantities, with a source of income more diversified than the tobacco crop alone, are matters of primary consideration.

SUGAR CANE.

In the sugar industry economic livestock production should be given very careful consideration in the development of this industry in Louisiana, Texas, and Florida.

(7) The excess products of the farm outside of the main cash crop should be sold or exchanged to meet the living expenses of the family. A surplus of hogs, eggs, poultry, corn, hay, soy beans, peanuts, and such other farm products as are adapted to each locality should be produced for sale in limited quantities, besides the production of the main staple crop. A cash income throughout the year, a cash business instead of a credit business, and a bank account should be the aim.

SPRING PLANTING.

The United States Department of Agriculture and the State agricultural colleges cooperating have established a cooperative extension service in each of the Southern States and have county agents and county home demonstration agents in the majority of the counties. This system is familiar to the vast majority of farm families.

Food is still one of the greatest needs of this and other civilized nations, and every prompting of caution and safety should warrant a most intimate attention to this problem. Each State has prepared a program for the orderly development of the agriculture of the State on a sound basis. As a general rule there will be no requests for definite increases in acreage or production. These programs are based on the thought that farming must pay, that it must be safe under all conditions, and that sound agricultural practice must be continued. By repeated consultations it is evident that the State programs will be in substantial conformity to the general principles of safe farming as repeated for some years past by the States in cooperation with the department.

Organizations have been created in practically every county to cooperate with the county agent in carrying on this great campaign. It is hoped that the State and Federal authorities will be able to lay before the farmers in each community the food situation of the world, and assist them in getting together in community meetings to consider their own needs as well as the needs of the nation and adopting such plans as will best enable them to safeguard their own interests as well as the interests of the State, the nation, and the world.

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The main cash crops of the South must be produced economically for sale in the markets of the world. To do this the department has advocated for some years past the balancing of the agriculture of the South by gradually and cautiously increasing the food and feed crops so as to supply the people of the South mainly if not entirely from food produced upon the farms of the South. To safeguard its increasing livestock most careful attention must be given to this whole problem of food and feed production. The Southern farmer should bear in mind the demoralization that might result if a largely increased acreage were planted, if weather conditions should be favorable and a very large crop should be secured. Market conditions would be upset and exchange values unbalanced.

Safe farming and a well-balanced agriculture will be the surest guaranty of prosperity for the year 1919.

APPENDIX.

ACREAGE IN 1913.

PERCENTAGE OF 1917 ACREAGE.

State	Corn	Wheat	Oats	Hay (tame)	Pota- toes	Sweet pota- toes	Cotton
Alabama	97	120	108	112	168	107	130
Arkansas	101	131	130	103	104	92	104
Florida	116	•••	100	104	135	110	89
Georgia	102	109	91	100	120	103	103
Kentucky	100	112	100	110	94	94	•••
Louisiana	105	• • •	95	100	200	97	106
Maryland	102	106	102	107	86	100	•••
Mississippi	100	200	83	87	133	105	116
North Carolina	100	115	102	101	97	90	103
Oklahoma	91	96	110	101	103	101	109
South Carolina	98	120	135	100	125	100	104
Tennessee	96	105	100	110	85	95	102
Texas	100	94	106	100	112	104	102
Virginia	104	110	105	105	83	. 96	97
West Virginia	103	110	104	101	99	100	•••
Average	99.6	104.1	106.6	105.	103.5	99.7	106.6

ACREAGE AND PRODUCTION SINCE 1909.

COTTON.

Acreage (thousands of acres), in heavy figures; production (thousands of 500-pound bales, excluding linters), in light figures.

State.	1909	1910	1911	1912	1913	1914	1915	1916	19171	19181
Alabama		3560	4017	3730	3760 1495	4007 1751	3340 1021	3225 533	1977 518	2451 820
Arkansas		1194 2238	1716 2363	1342 1991	2502	2480	2170 816	2600 1134	2740 974	2888 935
Florida	714 237	821 257	939 308	792	1073 188	1016	193	191	183	154
Georgia	54 4674	4873	83 5504	53 5335	59 5318	81 5433	4825	41 5277	38 5195	25 5338
Louisiana	1804 920	1767 975	2769 1075	$\begin{array}{ c c }\hline 1777\\929\end{array}$	2317 1244	2718 1299	1909 990	1821 1250	1884 1454	2100 1560
Mississippi	253 3291	246 2317	3S5 3340	376 2889	3567	3054	341 2735	443 3110	639 2788	525 3132
North Carolina	1083	1263 1478	1204 1624	1046 1545	1311 1576	1246 1527	954	812 1451	905 1515	1210 1565
Oklahoma	601	706 2204	1076 £050	866 2665	793 3009	931 2847	609 1895	$\begin{array}{c} 655 \\ 2562 \end{array}$	618 2783	870 3095
South Carolina	545	923 2534	1022 2800	1021 2695	840 2790	1262 2861	640 2516	\$23 2780	959 28 37	550 3047
Tennessee	1100	1164 765	1649 837	1182 783	1378 865	1534 915	1134	932 887	1237 882	1500 940
Texas	247	332 10060	· 450 10943	277 11338	379 12597	38 1 11931	303	382 11400	240 11092	330 1123 5
Virginia	2523	3049	4256	4880	3945	4592	3227	3726 42	3125 50	25S0 46
	10	15	30	24 103	23 112	25 145	16 96	27 133	19 153	26 156
Missouri		60	97	56	67	82	48	63	61	70 283
All other	$\frac{1}{2}$	13	12 17	9 11	14 32	61	54 33	58	192 85	159
United States	30938	32403	36045	34283	37089	36832	31412	34985	33841	35890
	10005	11609	15693	13703	14156	16135	11192	11450	11302	11700
	. CORN (Bushels).									
State	1969	1910	1911	1912	1913	1914	1915	1916	19171	1918¹
Alabama	2573	2850	3000	3150	3200	3234	3900	3825	4825	4636
Arkansas	30696	51300 2390	54000 2390	5418) 2475	55360 2475	55488 2400	66300 2700	47812 2550	77200 2674	67686 2700
Florida	37610 606	57360 630	49712 636	50493 655	47025 675	42000 700	62100 800	45135 820	64176	35100 880
Georgia	7024 3383	\$190 3585	9286 3692	8515 3910	10125 4066	$11200 \ 4060$	12000 4330	12300 4000	12000 4500	14080 4590
Kentucky	39375 3436	51982 3500	$\begin{array}{c} 59072 \\ \hline 3600 \end{array}$	53958 3600	63023 3650	56000 3650	64950 3500	62000 3400	72000 365 0	68859 3600
Louisiana	83348 1591	101500 1782	93600 1800	109440 1805	74S25 1900	$\begin{bmatrix} 91250 \\ 2000 \end{bmatrix}$	$\begin{array}{c} 105000 \\ 2200 \end{array}$	95200 2134	114975 1800	93600 1850
Maryland	26010 647	42055	33300 670	32490 670	41S00 670	38600 663	45100 710	44S14 675	32400 700	29600 686
Mississippi	17924	22110 2590	24455 2850	24455 3106	22110 3150	24531 3150	24850 3550	26325 3400	27300 3786	24010 3900
North Carolina	28429	53095 2650	54150 2700	56849 2803	63000 2835	58275 2835	67450 2900	47600 2600	77613 2920	66300 306 5
Oklahoma	34063	49290 5735	49689 5675	51106 5448	55282 4750	57550 4000	60900 3800	48100 3950	58400 3900	6436 5 32 50
South Carolina	94283	91769	36888 1790	101878 1915	52250 1975	50000 1975	112100 2130	53325 2065	33150 2150	24375 2250
	20872	31580	3 2578	34278	38512	36538	35145	32008	40850	38250 3500
Tennessee Texas	67682	3400 88060	3400 91129	3332 88298	3350 68675	3350 89400	3450 93150	3000 78000	104400	84000
	75499	6800 140080	7300 69350	7300 153300	$\begin{vmatrix} 6800 \\ 163200 \\ 1080 \end{vmatrix}$	6400 124800	7100 166859	129200 129200	6900 75900	6900 69000
Virginia	38295	1960 49980	1980 47520	1980 47520	1980 51480	1921 39380	2125 60562	2100 58800	2100 56700	2000 56000
West Virginia	676 17119	18200	707 18170	725 24505	732 22692	732 22692	$\frac{800}{25200}$	$\begin{array}{ c c }\hline 740 \\ 22570 \\ \end{array}$	24000	24800
Total	37437	40939	42190	42879	42208	41040	43995	42059	45105	44607
		856542		891253	S29359		1001657		871064	760016
Total, excluding Ky., Md., Va., &										
W. Va	30808 461543	34119 664752		35904 685333	35176 658252		36860	35144	37855	37521
	TOTOTO	COLLOS	OCTOO.	000000	000203	010291	120049	600294	1042028	LOOTOOR

¹ Estimate December, 1918, Crop Report.

ACREAGE AND PRODUCTION SINCE 1909—Continued.

WHEAT.1

Acreage (thousands of acres), in heavy figures; production (thousands of bushels), in light figures.

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State	1900	1910	1911	1912	1913	1914	1915	1916	19172	1918²
Alabama	14	28	30	36	32	31	100	110	93	140
Anlyongog	114	336	345	318	374	403	1200	1045	930	1330
Arkansas	$\begin{bmatrix} 61 \\ 526 \end{bmatrix}$	$\begin{array}{c c} 87 \\ 1209 \end{array}$	$\begin{array}{c c} 96 \\ 1008 \end{array}$	$\begin{vmatrix} 94 \\ 940 \end{vmatrix}$	$\begin{array}{c c} & 101 \\ & 1313 \end{array}$	$\begin{array}{c c} & 125 \\ \hline 1625 \end{array}$	$\begin{array}{c} 220 \\ 2750 \end{array}$	235 1880	$\begin{array}{c c} & 195 \\ & 3120 \end{array}$	$\begin{array}{c} 254 \\ 3048 \end{array}$
Florida	020		1000	510	1010	10-0	2.00	1000	0	0010
				100	140	7.40				0 ** 0
Georgia	93 753	141 1483	$\begin{array}{c c} 145 \\ 1740 \end{array}$	$\begin{array}{c c} & 132 \\ 1228 \end{array}$	140 1708	140 1694	$\begin{array}{c} 325 \\ 3575 \end{array}$	334 3808	$\begin{array}{c c} 244 \\ 2074 \end{array}$	$\begin{array}{c} 356 \\ 3631 \end{array}$
Kentucky	681	767	780	686	725	760	900	890	750	933
	8739	9818	9906	6860	9860	12540	9900	8010	9000	12129
Louisiana	• • • • •	• • • • •	• • • • •		* * * * *	• • • • •	• • • • •	• • • • •	• • • • •	
Maryland	590	604	605	599	610	612	638	650	675	732
	9463	10510	9378	8985	8113	13158	10272	1 0400	11475	11346
Mississippi	5	5 70	9 108	8 96	1 14	1 13	100	$\frac{6}{90}$	$\begin{array}{c} 14 \\ 210 \end{array}$	30
North Carolina		593	626	593	605	611	900	870	860	$\begin{array}{c} 495 \\ \textbf{1015} \end{array}$
	3827	6817	6636	5322	7078	7332	9810	9135	8600	7105
Oklahoma	1069	1567	1122	1570	1750	2525	3350	3050	3100	2611
South Carolina	14008 43	25542 77	8976 8 3	20096	27500 79	$\begin{bmatrix} 47975 \\ 80 \end{bmatrix}$	$\begin{array}{c} 38869 \\ 225 \end{array}$	$29585 \\ 210$	$\begin{array}{c} 35650 \\ 165 \end{array}$	32899 205
	311	847	946	727	972	920	2430	2226	1732	2255
Tennessee	620	711	720	674	700	720	860	830	500	750
Texas	$\begin{bmatrix} 6517 \\ 326 \end{bmatrix}$	8319	8280 700	7077 735	S400 780	$\begin{array}{c c} 11160 \\ 1082 \end{array}$	$9030 \ 1650$	$\begin{array}{c} 7885 \\ 1200 \end{array}$	$\begin{array}{c} 4600 \\ 1350 \end{array}$	$\begin{array}{c} 7500 \\ 892 \end{array}$
Texas	2561	10500	6580	11025	13650	14066	25575	13200	16200	8920
Virginia	693	748	750	741	780	770	1230	1200	1200	1300
West Virginia	8077 209	$\begin{array}{c} 9574 \\ 241 \end{array}$	9000 238	8596 233	1060S 235	11296 236	16974 300	15240 305	15600	$\begin{array}{c} 15600 \\ 348 \end{array}$
West Viiginia	2576	3012	2737	3378	3055	3540	4500	4422	4410	4942
Total	4901	C274	5904	6170	6533	7702	10703	9890	9461	9566
Total	57477	88034	65640	74648	92645	125722	134922	196926		111200
Total, excluding										
Ky., Md., Va., &										
W. Va	2723	2914	2531	£920	4123	5315	7635	6845	6524	6253
	28622	55120	34619	46829	61009	85188	93276	68854	73116	67183

¹ Acreage sown in fall next preceding. ² December, 1918, Crop Report.

OATS.

State	1909	1910	1911	1912	1913	1914	1915	1916	19171	1918¹
Alabama	257	283	280	200	325	390	600	600	420	428
	3251	5236	5434	5200	6662	8580	11400	10500	7560	8132
Arkansas	197	207	205	175	240	260	375	350	340	442
Tillomida	3213	5692	4100	3482	6369	6240	10125	7350	9520	11271
Florida	43 606	42 680	$\begin{array}{c} 43 \\ 580 \end{array}$	$\begin{array}{c} 43 \\ 740 \end{array}$	$\begin{array}{c} 50 \\ 900 \end{array}$	50 900	$\begin{array}{c} 61 \\ 1220 \end{array}$	$\begin{bmatrix} 60 \\ 900 \end{bmatrix}$	55 770	60 1 080
Georgia	412	404	404	364	420	450	905	860	550	600
doorgan	6199	$73\tilde{5}\hat{3}$	8686	7571	9240	9000	17648	16770	8800	12000
Kentucky	174	175	170	150	160	175	250	300	310	400
	2406	4375	3128	4035	3168	3675	6500	6300	8060	9600
Louisiana	30	36	40	34	45	70	120	110	84	89
Manuland	420 49	774 47	840 46	707 45	$\begin{array}{c} 990 \\ 45 \end{array}$	$\begin{array}{c} 1610 \\ 43 \end{array}$	$\begin{bmatrix} 3000 \\ 45 \end{bmatrix}$	$\begin{array}{c} 2090 \\ 46 \end{array}$	1873 47	2000 60
Maryland	1161	1410	1242	1350	1260	1161	1 530	1357	1457	1980
Mississippi	97	120	130	113	140	160	300	350	300	280
	1269	2304	2392	1966	2800	3680	6450	6300	5700	5600
North Carolina	228	221	219	204	230	250	350	390	275	325
	2782	4022	3614	3794	4485	4375	8050	6825	4400	6500
Oklahoma	$\begin{array}{ c c } \hline 609 \\ 16686 \end{array}$	$\begin{bmatrix} 699 \\ 25514 \end{bmatrix}$	909 SJ81	$\begin{array}{c} 936 \\ 23494 \end{array}$	1030 18540	$\begin{vmatrix} 1100 \\ 30250 \end{vmatrix}$	1350 36450	1160 14500	$\begin{vmatrix} 1150 \\ 26450 \end{vmatrix}$	1380 33120
South Carolina	324	336	345	324	360	375	525	500	400	500
South Caronna	5745	7056	7038	6966	8469	7500	9975	9000	6000	11000
Tennessee	342	342	315	258	300	350	357	260	290	325
	4721	7866	6142	5599	6307	8050	8746	5460	7250	8125
Texas	440	688	737	865	1000	900	1500	1500	1425	1510
	7935	24080	18499	31140	32500	22500	53257	42750	37050	22197
Virginia	204 2884	198 4356	194 3880	175 3885	195 4192	191 2960	5625	$\begin{array}{ c c } \hline 250 \\ 5875 \\ \end{array}$	$\begin{array}{c c} & 225 \\ \hline & 5512 \end{array}$	$\begin{array}{c} 225 \\ 5175 \end{array}$
West Virginia	104	110	110	111	115	105	120	140	125	160
west viigima	1729	2772	2420	3108	2760	2100	3487	3220	3375	4320
(Total	2510	£90S	4150	4057	4655	4869	7683	6876	5996	6775
Total		103490		103037		112581	183449			142100
	-		.02.0				100110	-30101	200111	
Total, excluding Ky., Md., Va., &							·		,	
Ky., Md., Va., &	2979	3378	3630	3576	4140	4355	6443	6140	5289	5930
W. Va	51847	90577	65506	90659	97237	A	166314			121025
	1323-1	1				1				

¹ Estimate from December, 1918, Crop Report.

ACREAGE AND PRODUCTION SINCE 1909—Continued.

HAY (Tame).

Acreage (thousands of acres), in heavy figures; production (thousands of tons), in light figures.

and the second s				0		•				
State	1909	1910	1911.	1912	1913	1914	1915	1916	1917^{1}	1918¹
Alabama	111 166	120 172	120 168	209 261	210 286	22 0 288	$\begin{bmatrix} 250 \\ 362 \end{bmatrix}$	400 440	1448 1158	1596 1293
Arkansas	193 248	210 284	230 230	286 352	520 084	\$20 336	350 560	$\begin{array}{c} 375 \\ 469 \end{array}$	$\begin{array}{r} 390 \\ 573 \end{array}$	403 524
Florida	19	19	18	43	47.	48	51	75	100 110	105
Georgia	26 87	25 87	23 87	54 234	250 250	250 250	61 500	94 400	594	683 615
Kentucky	117 480	122 500	117 450	316 815	350 775	338 750	345 900	$egin{array}{c} 460 \\ \textbf{1080} \\ \textbf{1512} \\ \end{array}$	612 975 1268	1072 1394
Louisiana	653 23 34	645 25	$ \begin{array}{c c} 428 \\ 24 \\ 31 \end{array} $	1002 143 234	674 160 240	712 200 380	1269 250 438	$\frac{260}{442}$	$\begin{array}{c c} 1200 \\ 200 \\ 320 \end{array}$	200 260
Maryland	297 356	291 393	$\begin{bmatrix} 276 \\ 199 \end{bmatrix}$	381 575	500 191	.90 448	390 468	465 688	442 552	473 639
Mississippi	83 122	$ \begin{array}{c c} & 333 \\ & 100 \\ & 142 \end{array} $	100 150	201 297	203 203	210 304	250 350	275 385	302 438	347 416
North Carolina	$ \begin{array}{c c} 122 \\ 175 \\ 242 \end{array} $	$egin{array}{c c} 142 \\ 175 \\ 262 \\ \hline \end{array}$	161 169	293 381	520 410	520 568	350 648	$\begin{array}{c} 339 \\ 440 \\ 572 \end{array}$	506 572	590 68±
Oklahoma	900 810	900 945	810 648	383 481	450 382	450 508	550 1265	550 935	574 918	564
South Carolina		67 84	64 69	194 223	210 244	210 242	220 286	255 332	$250 \\ 270$	260 286
Tennessee	$\begin{array}{c} 31\\450\\675 \end{array}$	455 637	400 400	288 1154	900 1080	890 960	950 1396	1050 1449	1050 1260	1200 1620
T exas	618 587	618 711	606 606	287 542	400 464	450 788	450 765	480 576	528 528	581 581
Virginia	466 606	$\frac{475}{565}$	437 280	741 SS9	750 952	650 468	700 945	$909 \\ 1215$	992	1142 1542
West Virginia		675 S10	648 428	745 1028	740 925	696 640	730 1095	825 1270	790	793 1037
Total		4717	4401	5944	6142	5964	6691	7830	9141	10014
	5567	5841	3916	7789	7256	6845	10244	10839	10733	11688
Total, excluding Md., Va., W. Va., & Ky	_									
& Ky	2730 3108	2776 3428	2590 2611	$\frac{3262}{4295}$	$\begin{array}{c} 3487 \\ 4214 \end{array}$	3478 4577	397 1 6476	$\begin{array}{c} 4560 \\ 6154 \end{array}$	5942 6759	6529 7076
		P	OTATO	ES (B	ushels)					
State	1909	1910	1911	1912	1913	1914	1915	1916	19171	19182
Alabama	17 1360	18 1440	15 1170	15 1215	18 1512	18 1422	20 1699	20 1800	41 2952	60 4800
Arkansas	33 2310	31 2604	$\begin{array}{c} 26 \\ 1430 \end{array}$	25	25 1899	$\begin{array}{c c} & \tilde{2}\tilde{5} \\ 1500 \end{array}$	$ \begin{array}{c c} & 28 \\ & 2520 \end{array} $	25 1625	46 3680	48 2400
Florida	5	6	10	1750 11	12	13	12	18	25	35 3500
Georgia	175 10	$\begin{array}{c c} 540 & \\ 10 & \\ 200 & \end{array}$	$\begin{array}{c} 900 \\ 12 \\ 004 \end{array}$	1023	912 12	1040 13	960 16	1332 15	2275 19	23
Kentucky	S10 40	829 41	864 52	936 51	972 50	789 50	1040	990	1596	1610 75
Louisiana	3680 16	3772 20	2028	5151 20	$\frac{2450}{25}$	2250 24	6126	4116	6720	5625 55
Maryland	$\begin{array}{c c} 1200 \\ \hline 35 \end{array}$	1100 36	$1518 \mid 39 \mid$	$\begin{array}{c} 1460 \\ 37 \end{array}$	1750 43	1680	1128	$\begin{array}{ c c c }\hline 1625 \\ \hline 43 \\ \hline \end{array}$	1600 60	4345 50
Mississippi	$\begin{bmatrix} 2800 \\ 9 \end{bmatrix}$	3420	$\begin{array}{c c} 1755 \\ \hline 9 \end{array}$	4144	3741 12	3432 12	4268 13	4085	6000	4000
North Carolina	783	$\begin{array}{c} 765 \\ 26 \end{array}$	$\begin{array}{c} 747 \\ 31 \end{array}$	890 30	960	£60 £60	1170 35	780 40	1170 50	1600 45
Oklahoma	1850	$\begin{array}{c} 23\overline{14} \\ 26 \end{array}$	1488	2550 29	2400	1716 32	315 ^{\(\gamma\)} 35	2890	4500	4275
South Carolina	1890	$\begin{array}{c} 1560 \\ 10 \end{array}$	540 10	1740 10	1020 10	2240	2975	1802	2484	1258 28
	765	900	700 38	900	\$00 38	770	880 86	750 36	1920	2856 50
Tennessee	2250	2400	1558	3344	2432	1505	3168	2052	4888	3500
Texas	3000	3067	2S59	3276 3276	2340	2381	2730	2000	2760	3300
Virginia	5520	6566	$\frac{95}{4275}$	S265	105 9870	7280 7280	140 17500	16999 16999	175 17325	125 11750
West Virginia	39 3822	3772	1989	5264	3981	2592	50 5850	48 4224	6325	5227
Total	415 32515	431 35033	483 23803	482 41908	505 37843	514 31851	561 55665	545 48691	735 66195	771 69039
Total, excluding .									33103	33073
Md., Ky., Va., & W. Va				270	250	2.00		200		
	241	246	253	252	259	260	276	275	375	461
	16693	246 17503 mate fi	13765	19084	17798	16297	21621	19366	375 29825	33444 33444

ACREAGE AND PRODUCTION SINCE 1909-Continued.

SWEET POTATOES.

Acreage (thousands of acres), in heavy figures; production (thousands of bushels), in light figures.

State	1900	1910	1911	1912	1913	1914	1915	1916	1917¹	1918¹
Alabama	67	67	64	62	70	63	68	85	150	153
Arkansas	$\begin{array}{c} 5315 \\ 22 \end{array}$	5695 22	6208 20	6200 18	6350 20	5859 18	7200 30	$\begin{array}{c} 6290 \\ 35 \end{array}$	13500 40	146SS 33
Florida	1685	$\begin{array}{c c} 21\overline{56} \\ 22 \end{array}$	1840	1584	1800	1710	3900	3185	4400	3420
	20S4 20S4	2376	21 2268	$\begin{array}{c} 21 \\ 2352 \end{array}$	$\begin{array}{c} 21 \\ 2310 \end{array}$	2280	$\begin{array}{c} 23 \\ 2576 \end{array}$	$\begin{array}{c} 25 \\ 2500 \end{array}$	35 3325	$\begin{array}{c} 36 \\ 3960 \end{array}$
Georgia	$\begin{array}{c} 85 \\ 7426 \end{array}$	85 7055	$\begin{array}{c c} & \textbf{81} \\ & 6561 \end{array}$	7290	$\begin{array}{c} 83 \\ 7221 \end{array}$	$\begin{array}{c} 79 \\ 6715 \end{array}$	95 8075	$\begin{array}{c} 94 \\ 7520 \end{array}$	$\begin{array}{c} 125 \\ 11625 \end{array}$	$\begin{array}{c c} 130 \\ 11960 \end{array}$
Kentucky	$\begin{array}{c} 11 \\ 1326 \end{array}$	935	10 969	9 810	$\begin{array}{c} 9 \\ 675 \end{array}$	10 1050	10 1050	10 900	$\begin{array}{c} 12 \\ 1140 \end{array}$	13 1235
Louisiana	60	60	69	56	63	59	65	64	62	65
Maryland	4251 8	5587 8	5400 8	1704 8	5100 8	5133 8	5980 8	5760 9	4898 10	4875
Mississippi	1086 57	SS3	929 55	1099 52	1128 55	1000 50	$1040 \\ 75$	1134	11S0 85	1430 89
	4428 84	5358 83	4675	5044	5390 80	4500	8250	6314	5525 90	8455
North Carolina	8493	8820	6322	6750	8990	6S40	85 8925	9309	8550	8910
Oklahoma	3 60	350 350	300	368	384 384	6012	13 13 13	13 962	15 1350	$\begin{array}{c} 15 \\ 975 \end{array}$
South Carolina	50 4323	50 4550	$\begin{array}{c} 48 \\ 4932 \end{array}$	48 5040.	50 4630	48 4080	65 6825	$\begin{array}{c c} 66 \\ 5676 \end{array}$	80 7600	80 7600
Tennessee	- 23	23	22	20	20	25	27	27	30	30
Texas	2595 42	2210 42	1870 40	1800 36	1600 50	2500 52	2835 60	2700 80	2S50 84	2940 87
Virginia	$\begin{array}{c} 2730 \\ 39 \end{array}$	$\begin{bmatrix} 2352 \\ 39 \end{bmatrix}$	$2840 \\ 35$	$\begin{bmatrix} 2700 \\ 33 \end{bmatrix}$	$\begin{array}{c c} 4000 \\ \hline 33 \end{array}$	$\begin{array}{c} 5252 \\ 31 \end{array}$	5880 34	7120 39	$\begin{array}{c c} 6552 \\ \hline 34 \end{array}$	5046 28
West Virginia	5270 2	$\begin{array}{c} 3900 \\ 2 \end{array}$	3150 2	2970	$\begin{array}{c} 3564 \\ 2 \end{array}$	2852	3740	5070	3536	2360
West viiginia,	218	202	220	230	182	184	220	289	280	212
Total	580	580	547	525	567	546	660	713	854	S58
10001	51495	52419	47866	48812	52604	59567	67876	64720	76311	79066
Total, excluding										
Total, excluding IXy., Md., Va., & W. Va	£20	520	492	473	515	495	606	653	796	804
17. 761	43597	46502	42616	43832	47055	45481	61826	57336	70175	72829
		1		RICE.			1	<u> </u>	,	
State	1909	1910	1011	1912	1913	1914	1915	1916	19171	1918¹
	ļ		3011	1912	1919	.LULT	1919	1910	1911	
Alabama	35	$\frac{1}{25}$	Ġ	Ġ	4	6	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ii	15
Arkansas	1123	2400	72 2792	3405	105 3763	93 3685	100 4S40	125 6312	$\begin{array}{c c} 152 \\ 6232 \end{array}$	170 7310
Florida		19	iŝ	15	io	10	12	18	1 21	20
Georgia	4	4	1	1	• • •	1	1	1	1	1
Louisiana	100	SS 371	39 371	27 253	16 405	31	20 401	16 443	27 500	31 580
Mississippi	12675	12769	11693	11812	11769	10802	13714	20392	15500	17989
	30	84	76	$\frac{2}{77}$	42	30	45	53	63	69
North Carolina	13	$\frac{1}{27}$	13	10		4		6	8	10
South Carolina	19 476	17 357	10 117	$\begin{array}{c c} 8 \\ 200 \end{array}$	$\begin{array}{c} 5 \\ 147 \end{array}$	179	90	$\frac{3}{49}$	$\begin{array}{c c} 3 \\ 75 \end{array}$	5 104
Texas	291	265 8738	238 8174	266 9429	9696	240 8192	260 7930	235 10575	$\frac{238}{7140}$	245 7840
Total	720	722	694	721	819	678	766	810	897	1007
10001	2136S	24507	22928	24984	25451	22849	26663	37429	29077	33388

¹ Estimate from December, 1918, Crop Report.

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49. 1

ACREAGE AND PRODUCTION SINCE 1909—Continued,

PEANUTS.

Acreage (thousands of acres), in heavy figures; production (thousands of bushels), in light figures.

State	1909	1916	19171	1918¹
Mabama	101	330	540	747
	1,547	9,000	13,932	17,480
Arkansas	10	23	18	21
	169	920	630	546
Morida	126	10	58	153
	2,315	300	2,030	5,202
Georgia	160	40	255	362
	2,570	1,240	9,435	10,136
Kentucky		• • • •		• • • •
		• • • •	• • • •	• • • •
ouisiana	25		4	5
	412	* * * *	120	108
laryland		• • • •		
Iississippi	14	3	6	5
	285	75	204	158
North Carolina	195	205	163	160
	5,981	6,970	7,172	7,200
klahoma	2	11	17	20
	$3\overline{2}$	385	544	440
outh Carolina	8	10	16	14
	155	450	720	630
'ennessee	_19	16	15	18
	547	608	450	684
exas	64	275	600	647
	1,075	9,075	12,000	7.117
'irginia	145	150	150	140
T A TTI T- I	4,284	5,400	5,250	5,880
Vest Virginia	• • • •	• • • • •	• • • •	
-	• • • •	••••	• • • •	••••
Total	869	1,043	1,842	2,292
	19,399	34,423	52.487	55,581

¹ Estimates from December, 1918, Crop Report.

KAFIRS (Grain sorghums, milo maize, feterita). Acreage (thousands of acres), in heavy figures; production (thousands of bushels), in light figures.

State	1915	1916	19171	19181
Texas	$\begin{array}{c} 1,250 \\ 40,000 \\ 1,238 \end{array}$	1,200 26,400	1,284	1,605
Oklahoma	1,238 $30,950$	1,114 7,798	$\begin{array}{c} \textbf{1,284} \\ \textbf{14,766} \\ \textbf{1,400} \\ \textbf{22,400} \end{array}$	1,605 4 24,075 1,526 15,260
Total	$\frac{2,488}{70.950}$	2,314 34,198	$\frac{2,684}{37,166}$	3,131 39,335

¹ Estimates from December, 1918, Crop Report.

. VELVET BEANS.

Acreage¹ (thousands of acres), in heavy figures; production² (thousands of bushels), in light figures.

State	1916	1917	1918
labama	1100	1800	1839
rkansas	4	S140 25	37
lorida	• • • •	500	550
eorgia	370	$\begin{array}{c} 2250 \\ \textbf{1300} \end{array}$	1378
lississippi	630 302	3224 705	750
orth Carolina	$\begin{array}{c} 20 \\ 84 \end{array}$	$\begin{array}{c} 1760 \\ 108 \end{array}$	104
outh Carolina	45	75 188	160
		350	
Total	1860 695	4626 15799	4818

¹ Number of acres on which grown. ² Of the area planted in 1917, only 1.946,000 acres were harvested for grain and the production figures apply to the acreage harvested for grain.